

ABSTRACT OF THE DISCLOSURE

The present invention provides a method of preparation of a supported catalyst composition suitable for the oxidation of ethane to ethylene and/or acetic acid, and/or the oxidation of ethylene to acetic acid, which supported catalyst composition comprises a catalyst, comprising one or more metal components, on a support comprising alpha-alumina, and which method comprises (a) forming a slurry comprising the one or more metal components, and alpha-alumina support particles or an alpha-alumina support precursor, (b) spray-drying the slurry, and, optionally, (c) calcining the spray-dried slurry to form the supported catalyst composition. The present invention also provides a supported catalyst composition formed by the above method, and a process for the selective oxidation of ethane to ethylene and/or acetic acid, and/or the selective oxidation of ethylene to acetic acid utilising the supported catalyst composition.